

Vol. 16, No. 5

REPORT

Week Ending February 4, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

PUBLIC HEALTH SERVICE

EPIDEMIOLOGIC NOTES AND REPORTS CARBON MONOXIDE POISONING CONFUSED WITH BOTULISM — Savannah, Georgia

Shortly after noon on January 12, 1967, three persons (ages 54, 55, and 76) were found in a state of collapse in their small Savannah, Georgia home. An ambulance was summoned and the three were rushed to a local hospital. During the trip, which took approximately 15 minutes, oxygen therapy was administered.

On arrival at the hospital the patients were able to talk to the physician on duty, although all three were somewhat confused and one appeared quite excited. Vital signs and pupils were found to be normal but each patient complained of a dry mouth and showed generalized weakness and flaccidity. As nearly as could be determined,

onset began around midmorning with symptoms of nausea, malaise, a feeling of "tightness" in the head, palpitations, diplopia, giddiness progressing to vertigo, weakness, a sense of constriction in the chest accompanied by dyspnea, and finally collapse.

(Continued on page 34)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and deloyed reports through previous weeks)

| | 5th WEEF | ENDED | MEDIAN | CUMULATIVE, FIRST 5 WEEKS | | | |
|---|---------------------|---------------------|-------------|---------------------------|-----------------|-----------------------|--|
| DISEASE | FEBRUARY 4, 1967 | FEBRUARY 5, 1966 | 1962 - 1966 | 1967 | 1966 | MEDIAN 1962 - 1966 | |
| Aseptic meningitis | 29 | 19 | 19 | 142 | 128 | 130 | |
| Brucellosis | 1 | 3 | 2 | 15 | 17 | 22 | |
| Diphtheria | 6 | 2 | 4 | 12 | 12 | 22 | |
| Encephalitis, primary: | | | | | | | |
| Arthropod-borne & unspecified | 13 | 24 | | 91 | 113 | | |
| Encephalitis, post-infectious | 13 | 14 | | 44 | 64 | | |
| Hepatitis, serum | 36 | 26 | 983 | 174 | 102 | 4,465 | |
| Hepatitis, infectious | 835 | 728 | , 303 | 3,664 | 3,475 | , 1,100 | |
| Malaria | 53 | 1 | 1 | 142 | 26 | 10 | |
| Measles (rubeola) | 2,205 | 5,857 | 7,994 | 7,798 | 26,003 | 34,392 | |
| Meningococcal infections, total | 51 | 65 | 65 | 286 | 354 | 272 | |
| Civilian | 47 | _ | | 265 | _ | | |
| Military | 4 | 7 | | 21 | 32 | | |
| Poliomyelitis, total | - | _ | - | _ | 1 | 5 | |
| ParalyticRubella (German measles) | 849 | 1 154 | | 2 000 | 4 267 | 3 | |
| Streptococcal sore throat & scarlet fever | 11,827 | 1,154 10,385 | 10,212 | 2,908 54,772 | 4,267 46,867 | 44,074 | |
| Tetanus | 3 | 10,300 | 10,212 | 13 | 40,007 | 16 | |
| Tularemia | 3 | 1 | 3 4 | 13 | 18 | 33 | |
| Typhoid fever | 9 | 6 | 6 | 27 | 24 | 33 | |
| Typhus, tick-borne (Rky. Mt. spotted fever) | _ | _ | - | 4 | 7 | 33 | |
| | | | | 1 | ' | | |
| Rabies in animals | 69 | 58 | 73 | 352 | 342 | 318 | |

NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|-----------------------------|------|--|------|
| Anthrax Botulism | | Rabies in man Rubella, Congenital Syndrome | |
| Leptospirosis: Tex1. Plague | 4 | Trichinosis: Conn1 | 8 |
| Psittacosis ····· | | | |

CARBON MONOXIDE POISONING CONFUSED WITH BOTULISM - Savannah, Georgia

(Continued from front page)

Carbon monoxide poisoning was briefly considered as a possible diagnosis until a policeman who had helped the patients into the ambulance assured the physician that the heater in the home was working perfectly. Botulism was then considered. This possible diagnosis was reinforced by food histories elicited from the patients. A confused account was given which left the impression that precooked venison sealed in a glass jar had been given to the family several days earlier by a friend. The jar of meat was thought to have been frozen, then thawed and served cold at the evening meal prior to onset the next morning.

The physician believed treatment for botulism was indicated. Botulinum antitoxin (AB) was begun but had to be discontinued because of anaphylactic reactions in two patients which responded to adrenaline, steroids, and antihistamines. In addition to antitoxin patients received oxygen and intravenous fluids. Improvement was rapid and by morning (some 18 hours after admission) the patients were virtually well with the exception of one who continued to experience headaches and blurred vision over the next few days.

The striking improvement overnight suggested that the illness may not have been caused by botulism. Upon requestioning the patients it was learned that the suspect venison, rather than being precooked, was frozen as red meat and cooked just prior to serving, thus eliminating this item as a possible source of botulism.

Further investigation revealed that the patients live in a small, tightly constructed concrete block house heated by an unvented propane gas heater located in the hallway. The day prior to onset the heater had gone out briefly but was relit after switching to an auxiliary propane tank which had been installed several days earlier. When the family retired at 11:00 p.m. the heater was turned off. The next morning around 6:00 a.m. the 54-year-old woman relit the heater and turned it wide open since the temperature was 24°F., the coldest morning of the winter. The others got up around 7:30 a.m., opened the doors to their bedrooms to let the heat enter, and went in to breakfast. Everyone felt fine and enjoyed a hearty meal.

A short time later the woman who arose first had an onset of nausea and a "tight feeling in her head". Dyspnea became so unbearable that she rushed outdoors. Feeling better in about 10 or 15 minutes, she returned to the house where after a brief period symptoms began again. Within an hour the two others were affected. Illness progressed for several hours and when found by friends shortly after noon, all three were critically ill and in a state of collapse. The house was noted to be "hot and suffocating" at the time and the heater was turned off.

With this added perspective the original suspicion of carbon monoxide poisoning appeared to be a more reasonable diagnosis. This was confirmed when blood specimens drawn from two of the patients about 4 hours after admission to the hospital showed high levels of carboxy-hemoglobin saturation (50 percent in one and 25 percent in another). Environmental engineers from the State and County Health Departments duplicated conditions in the dwelling and found 50 ppm carbon monoxide after 30 minutes and 1,000 ppm after 4½ hours. A parakeet was visibly affected after an hour in the house when carbon monoxide concentrations were at least 1,000 ppm.

(Reported by Dr. John McCroan, Chief Epidemiologist, and Mr. Tom McKinley, Assistant Epidemiologist, Georgia Department of Public Health; Dr. Walter W. Otto, Assistant Chatham County Health Officer; and an EIS Officer.)

CURRENT TRENDS MEASLES - 1967

There has been a gradual increase in the number of measles cases reported in the United States during the first 5 weeks of 1967. The total of 2,205 cases reported for the week ending February 4 is an increase of 545 cases over the total for the previous week, but is 3,652 cases less than the 5,857 cases reported for the comparable week of 1966.

During the first 4 weeks of 1967, 5,593 cases of measles were reported. This number is the lowest total for any January according to records which date back to 1912. The current total is approximately one-fifth of the mean number of cases for the same month in the previous 5 years. Listed in Table 1 are the weekly number of cases by state for the first 4 weeks of 1967 and the totals for this 4-week period for 1967 and the preceding 5 years. Fewer measles cases were recorded in 1967 than for the previous 5 years in all areas but the West South Central and Pacific Regions.

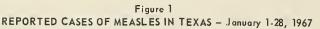
No cases were reported from New Hampshire or Wyoming; ten other areas notified 10 cases or less. North Carolina, Oklahoma, New Mexico and Nevada have reported more cases thus far in 1967 than in any of the previous 5 years.

Texas and Washington accounted for 30 to 39 percent of the national total for each of the first 4 weeks of 1967. The distribution of cases by county within these two states is shown in Figures 1 and 2. Four counties in Texas (Bexar, Ector, Galveston, and Travis) reported 45 percent (535 of 1,181) of the state's total for the 4-week period. A similar situation existed in Washington, where during the same 4-week period, four counties (Benton, Clallam, King, and Spokane) reported 69 percent (538 of 785) of the total. For the current week ending February 4, these two states again are among the three states reporting the highest numbers of cases. Texas reported 395, Washington 271, and Kentucky (including delayed reports) notified 272.

Toble 1
Reported Cases of Meosles, United States
Current Four Weeks and Comparoble Four-Week Periods, 1962-1967

| Current Four Weeks and Comparable Four-Week Periods, 1962-1967 | | | | | | | | | | | |
|--|-----------|-----------|---------------|-----------|---|----------------|--------------|----------------|---------------|--------------------|--|
| | | Week e | ended | | 4-week | | Compara | ble 4-wee | k period | | |
| State | Jan. 7 | Jan. 14 | Jan. 21 | Jan. 28 | Total 1967 | 1966 | 1965 | 1964 | 1963 | 1962 | |
| United States | 1,119 | 1,377 | 1,437 | 1,660 | 5,593 | 20,146 | 26,398 | 21,879 | 30,020 | 31,461 | |
| New England | 8 | 16 | 9 | 14 | 47 | 277 | 7,109 | 1,157 | 1,272 | 4,956 | |
| Maine | 2 | 2 | - | 1 | 5 | 31 | 904 | 114 | 161 | 939 | |
| New Hampshire | - | _ | - | - | -1 | 4 | 135 | 8 | 6 | 251 | |
| Vermont | 1 5 | 11 | 3 5 | 10 | 31 | 109 63 | 28 4,109 | $311 \\ 254$ | 102 328 | $\frac{45}{2,511}$ | |
| Massachusetts Rhode Island | _ | 2 | - | - | 2 | 27 | 831 | 68 | 116 | 315 | |
| Connecticut | | 1 | 1 | 3 | 5 | 43 | 1,102 | 402 | 559 | 895 | |
| Middle-Atlantic | 30 | 62 | 68 | 80 | 240 | 3,307 | 965 | 4,309 | 2,211 | 4,399 | |
| New York City | 3 | 10 | 11 | 10 | 34 | 1,549 | 120 | 1,629 | 1,127 | 2,248 | |
| New York Up-State | 13 | 16 | 21 | 18 | 68 | 471 | 348 | 1,013 | | | |
| New Jersey | 10 | 19 | 26 | 22 | 77 | 302 | 166 | 716 | 379 | 1,584 | |
| Pennsylvania | 99 | 17 153 | 10 188 | 30 173 | 61 613 | $985 \\ 8,376$ | 331 4,547 | $951 \\ 4,285$ | 705 12,504 | 567 $4,457$ | |
| East North Central Ohio | 7 | 12 | 16 | 22 | 57 | 469 | 1,001 | 658 | 1,512 | 364 | |
| Indiana | 20 | 21 | 38 | 17 | 96 | 345 | 209 | 852 | 526 | 251 | |
| Illinois | 6 | 12 | 21 | 23 | 62 | 1,766 | 147 | 1,489 | 513 | 2,110 | |
| Michigan | 18 | 54 | 45 | 44 | 161 | 1,305 | 2,304 | 913 | 3,129 | 1,127 | |
| Wisconsin | 48 | 54 | 68 | 67 | 237 | 4,491 | 886 | 373 | 6,824 | 605 | |
| West North Central | 14 | 75 | 51 | 71 | 211 | 710 | 1,927 | 522 | 3,039 | 814 | |
| Minnesota Iowa | 3 | 4 11 | 1 15 | 6 9 | 11 38 | 344 166 | 1,079 | 7 134 | 1,565 | 78 382 | |
| Missouri | | 2 | 4 | 2 | 8 | 34 | 175 | 66 | 113 | 22 | |
| North Dakota | 9 | 28 | 12 | 25 | 74 | 157 | 542 | 308 | 895 | 242 | |
| South Dakota | _ | _ | 14 | _ | 14 | 1 | 20 | 3 | 44 | 88 | |
| Nebraska | 2 | 30 | 5 | 29 | 66 | 8 | 78 | 4 | 6 | 2 | |
| Kansas | NN | NN | NN | NN | NN | NN | NN | NN | NN | NN | |
| South Atlantic | 106 | 141 | 163 | 283 | 693 | 1,944 | 3,878 | 2,525 | 2,689 | 2,929 | |
| Delaware | _ | 1 | 4 | 3 5 | 7 7 | 35 311 | 66 55 | 27 | 75 72 | $\frac{18}{276}$ | |
| Maryland District of Columbia | | 4 | | 9 | 4 | 84 | 3 | 404 | 3 | 125 | |
| Virginia | 23 | 23 | 20 | *133 | 199 | 121 | 585 | 538 | 351 | 1,259 | |
| West Virginia | 28 | 16 | 43 | 34 | 121 | 983 | 2,818 | 833 | 1,802 | 880 | |
| North Carolina | 16 | 27 | 32 | 47 | 122 | 32 | 69 | 62 | 92 | 79 | |
| South Carolina | 1 | - | _ | 2 | 3 | 93 | 38 | 401 | 45 | 35 | |
| Georgia | - 20 | 70 | 8 | - ' | 8 222 | 28 257 | 94 | 64 | 6 | 51 | |
| Florida East South Central | 38 160 | 70 113 | 55 192 | 59 134 | 599 | 2,425 | 150 | 150 3,069 | 243 1,155 | 206 3,682 | |
| Kentucky | 25 | 8 | 32 | 21 | 86 | 830 | 84 | 1,703 | 455 | 496 | |
| Tennessee | 48 | 73 | 74 | 40 | 235 | 1,522 | 936 | 1,219 | 649 | 2,144 | |
| Alabama | 30 | 4 | 32 | 52 | 118 | 30 | 223 | 96 | 34 | 554 | |
| Mississippi | 57 | 28 | 54 | 21 | 160 | 43 | 128 | 51 | 17 | 488 | |
| West South Central | 317 | 412 | 403 | 394 | 1,526 | 1,115 | 2,124 | 1,323 | 1,397 | 4,809 | |
| Arkansas | 5 - | 61 | 71 | 41 6 | 178 19 | 22 16 | 25 5 | 65 | 375 | 190 21 | |
| Louisiana Oklahoma | 51 | 44 | $\frac{4}{6}$ | 47 | 148 | 10 | 21 | 16 | 6 | 97 | |
| Texas | 261 | 298 | 322 | 300 | 1,181 | 1,067 | 2,073 | 1,241 | 1,003 | 4,501 | |
| Mountain | 113 | 121 | 106 | 127 | 467 | 832 | 2,306 | 943 | 3,309 | 1,161 | |
| Montana | 45 | 11 | 32 | 24 | 112 | 198 | 825 | 268 | 625 | 269 | |
| Idaho | 6 | 16 | 6 | 7 | 35 | 200 | 360 | 140 | 267 | 195 | |
| Wyoming | - | | _ | - | - | 12 | 56 | 12 | 314 | 55 | |
| Colorado New Mexico | 18 7 | 15 22 | 9 | 52 26 | 94 73 | 61 | 302 | 91 53 | 883 NN | 204 NN | |
| Arizona | 22 | 21 | 12 | 11 | 66 | 327 | 57 | 255 | 569 | 282 | |
| Utah | 4 | | 6 | 2 | 12 | 26 | 650 | 88 | 646 | 130 | |
| Nevada | 11 | 36 | 23 | 5 | 75 | 4 | 3 | 36 | 5 | 26 | |
| Pacific | 272 | 284 | 257 | 384 | 1,197 | 1,160 | 2,171 | 3,746 | 2,444 | 4,254 | |
| Washington | 159 | 110 | 160 | 248 | 677 | 346 | 623 | 1,455 | 552 | 1,694 | |
| Oregon | 52 | 88 | 10 | 55 | 205 | 128 | 473 | 447 | 457 | 601 | |
| California | 43 | 69 | 77 | 66 | 255 | 667 | 808 | 1,417 | 844 | 1,630 | |
| Alaska Hawaii | .18 | 13 | 8 2 | 7 8 | $\begin{array}{c c} 46 \\ 14 \end{array}$ | 1 18 | 242 | 27 | 47 544 | 25 | |
| Puerto Rico | 43 | 7 | 63 | 53 | 166 | 248 | 105 | 272 | 74 | 407 | |
| | | l | | | U | L | | | L | | |

^{*}Includes delayed reports not allocated to week.



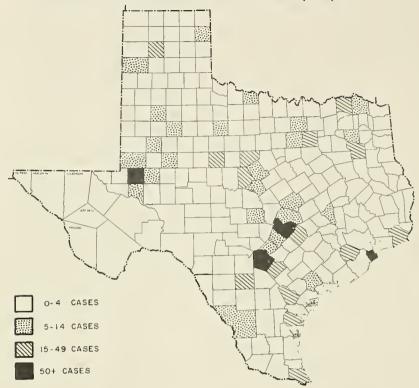


Figure 2
REPORTED CASES OF MEASLES IN WASHINGTON - January 1-28, 1967

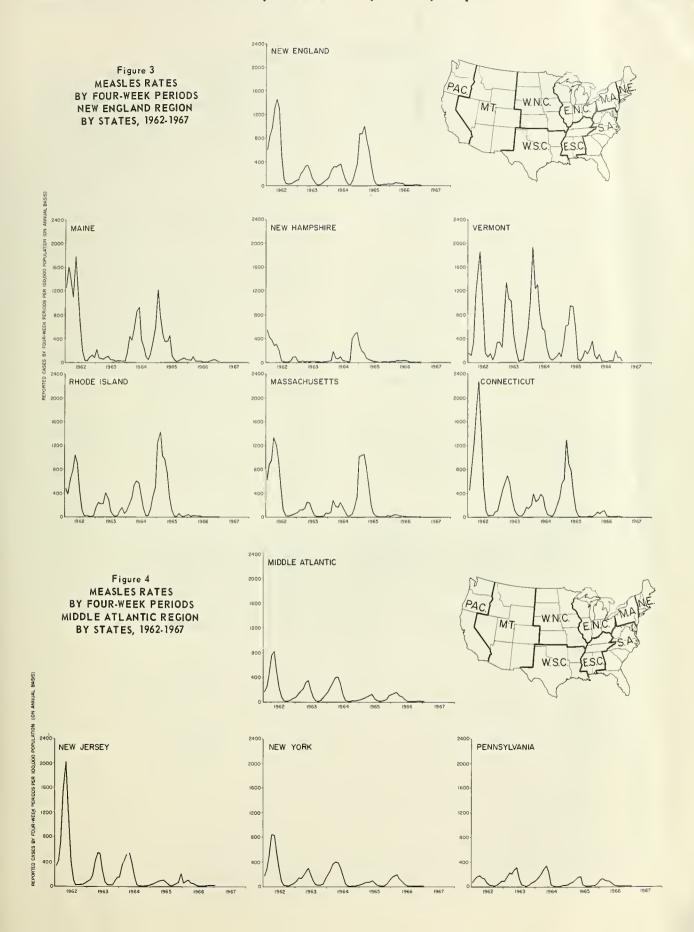


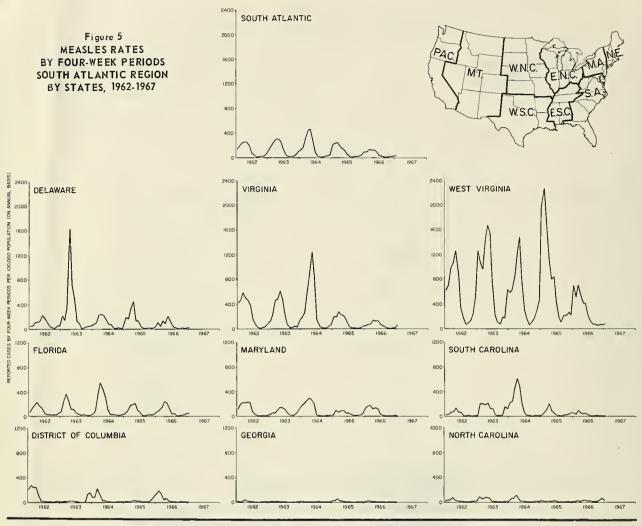
MEASLES - 1967 - (Text continued from page 34)

Figures 3, 4, and 5 illustrate the secular trends of measles for the period 1962 through 1966 for the New England, Middle Atlantic, and South Atlantic Regions, respectively. In each figure the trends for individual states within each Region are compared with that for the Region as a whole. In the New England Region, the case rates for the 1965-66 epidemiologic year and the 1966-67 measles season to date are well below the previous non-epidemic year

case rates observed in 1963-64 and 1964-65. This general pattern of decline in measles incidence has occurred in each of the six states comprising the Region. In the Middle Atlantic and the South Atlantic Regions the incidence also has declined, but less dramatically than noted in the New England Region.

(Reported by the Childhood Viral Diseases Unit, Epidemiology Program, CDC.)





REPORTED CASES OF POST-INFECTIOUS AND POST-IMMUNIZATION ENCEPHALITIS FOURTH QUARTER ENDING DECEMBER 31, 1966 (Weeks 40-52)

| State | Mumps | Measles | Chickenpox | Other specified |
|-------------------------------|-------|---------|------------|------------------------------|
| Arizona | 1 | | | |
| Arkansas | | | | Herpes Simplex-1 |
| California | 27 | | 1 | |
| Connecticut | 1 | | | |
| Florida | 12 | 2 | | Herpes-2 |
| Georgia | 1 | | | |
| Illinois | 7 | 1 | | Mononucleosis-1, Influenza-1 |
| Maryland | 3 | | | |
| Massachusetts | 4 | | | |
| Michigan | 9 | 1 | 2 | |
| Minnesota | 2 | | 1 | Herpes-1 |
| New York, Upstate | 3 | | 1 | |
| Pennsylvania | 3 | | 1 | |
| Tennessee | 5 | | | Pneumonia-1 |
| Texas | 4 | 1 | | |
| Virginia | 2 | | | |
| Washington | 1 | 2 | 1 | |
| Fourth Quarter Total | | | | |
| 1966 | 85 | 7 | 7 | |
| 1965 | 67 | 12 | 7 | |
| Cumulative Total (weeks 1-52) | | | | |
| 1966 | 428 | 166 | 77 | |
| 1965 | 424 | 106 | 79 | |

SURVEILLANCE SUMMARY SALMONELLOSIS — November and December 1966

For the months of November and December 1966, the total numbers of salmonellae reported from human sources were 2,121 and 1,477, respectively. The cumulative number of 20,058 isolations recorded for the 12 months of 1966 represents a decrease of 4.0 percent from the total of 20,886 notified for 1965. The November weekly average of 424 isolations and the December one of 369 show increases of 8.0 and 0.5 percent, respectively, over the weekly averages of the same months in 1965. These weekly averages, which are less than those for the preceding 2 months, illustrate the expected seasonal pattern (Figure 6). The seven most frequently reported serotypes from human sources during November and December 1966 are listed in Table 2.

Reports of 1,026 nonhuman isolations represented by 70 serotypes were received from 37 states in November,

Table 2
Seven Most Frequently Reported Serotypes
from Humon Sources
November ond December 1966

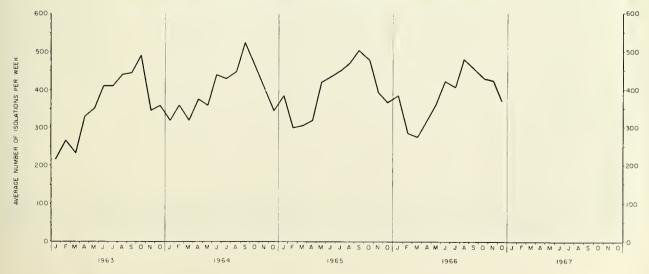
| | No | vembe | r | December | | | | |
|---|------|-------------|--------------|----------|-------------|--------------|--|--|
| Serotype | Rank | Num- ber | Per- cent | Rank | Num- ber | Per- cent | | |
| S. typhi-murium & S. typhi-murium var. copenhagen | 1 | 628 | 29.6 | 1 | 442 | 29.9 | | |
| S. newport | 2 | 181 | 8.5 | 3 | 105 | 7.1 | | |
| S. heidelberg | 3 | 131 | 6.2 | 2 | 115 | 7.8 | | |
| S. enteritidis | 4 | 115 | 5.4 | 4 | 89 | 6.0 | | |
| S. infantis | 5 | 104 | 4.9 | 5 | 53 | 3.6 | | |
| S. saint-paul | 6 | 85 | 4.0 | 6 | 51 | 3.5 | | |
| S. blockley | 7 | 68 | 3.2 | 7 | 41 | 2.8 | | |
| Total | | 1,312 | 61.8 | | 896 | 60.7 | | |
| Total all serotypes | | 2,121 | | | 1,477 | | | |

while 695 isolations representing 63 serotypes were sent by 35 states in December. The seven most frequently reported nonhuman serotypes are shown in Table 3. (Reported by the Salmonella Unit, Bacterial Diseases Section, Epidemiology Program, CDC.)

Toble 3
Seven Most Frequently Reported Serotypes
from Nonhuman Sources
November ond December 1966

| | No | ovembe | r | De | ecembe | r |
|-----------------------------------|------|-------------|--------------|-------------------|-------------|--------------|
| Serotype | Rank | Num- ber | Per- cent | Rank | Num- ber | Per- cent |
| S. heidelberg | 1 | 114 | 11.1 | 4 | 45 | 6.5 |
| S. typhi-murium & S. typhi-murium | 1 | 114 | 11.1 | 1 | 72 | 10.4 |
| var. copenhagen | | | | | | |
| S. derby | 3 | 103 | 10.0 | | | |
| S. anatum | 4 | 94 | 9.2 | 6 | 34 | 4.9 |
| S. saint-paul | 5 | 53 | 5.2 | | | |
| S. schwarzengrund | 6 | 50 | 4.9 | 7 | 25 | 3.6 |
| S. infantis | 7 | 47 | 4.6 | 5 | 35 | 5.0 |
| S. cubana | 1 | | | 2 | 67 | 9.6 |
| S. eims buettel | | | | 3 | 58 | 8.3 |
| Total | | 575 | 56.1 | | 336 | 48.3 |
| Total all serotypes | | 1,026 | | | 695 | |
| | | | | on Sou n Isolo | | |
| Swine | 1 | 312 | 30.4 | 4 | 64 | 9.2 |
| Turkey | 2 | 215 | 21.0 | 1 | 99 | 14.2 |
| Chicken | 3 | 111 | 10.8 | 3 | 68 | 9.8 |
| Animal feed | 4 | 61 | 5.9 | | | |
| Cattle | 5 | 40 | 3.9 | | 0.0 | |
| Livestock feed | | | | 2 5 | 98 | 14.1 |
| Carmine dye | | | | 9 | 51 | 7.3 |

Figure 6
REPORTED HUMAN ISOLATIONS OF SALMONELLA IN THE UNITED STATES



Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FEBRUARY 4, 1967 AND FEBRUARY 5, 1966 (5th WEEK)

| | | | | | E | NCEPHALIT | IS | | HEPAT | TITIS | |
|------------------------------|---------------|-------------------------|-------------|------------|------|------------------------|---------------------|----------|----------|-----------|-----------|
| AREA | ASEI MENII | PTIC NGIT I S | BRUCELLOSIS | DIPHTHERIA | incl | mary uding cases | Post- Infectious | Sei | rum | Infec | tious |
| | 1967 | 1966 | 1967 | 1967 | 1967 | 1966 | 1967 | 1967 | 1966 | 1967 | 1966 |
| UNITED STATES | 29 | 19 | 1 | 6 | 13 | 24 | 13 | 36 | 26 | 835 | 728 |
| CHILD DIAILD | | | | | | | | 20 | | 000 | , 20 |
| NEW ENGLAND | 1 | - | - | - | 1 | - | - | 2 | 1 | 47 | 20 |
| Maine | - | - | - | - | - | - | - | - | - | 8 | 4 |
| New Hampshire Vermont | _ | _ | _ | | - | _ | 1 - | _ | _ | 1 | 1 |
| Massachusetts | 1 | _ | _ | _ | _ | _ | _ | _ | 1 | 27 | 13 |
| Rhode Island | - | - | - | - | - | - | - | 1 | _ | 1 | 1 |
| Connecticut | - | - | - | - | 1 | - | - | 1 | - | 6 | 1 |
| MIDDLE ATLANTIC | 2 | 1 | | _ | 2 | 7 | , | 15 | 16 | 105 | 00 |
| New York City | 1 | - | _ | | 2 | 5 | 4 - | 15 12 | 16 10 | 105 44 | 89 15 |
| New York, up-State. | - | - | - | - | - | 1 | - | - | 3 | 27 | 29 |
| New Jersey | 1 | - | - | - | - | 1 | - | 1 | 2 | 20 | 15 |
| Pennsylvania | - | 1 | - | - | - | - | 4 | 2 | 1 | 14 | 30 |
| EAST NORTH CENTRAL | 2 | 3 | _ | _ | 2 | 5 | 1 | 1 | _ | 130 | 145 |
| Ohio | _ | - | - | _ | 1 | 3 | | 1 | _ | 24 | 45 |
| Indíana | - | 2 | - | - | _ | _ | - | _ | - | 10 | 15 |
| Illinois | 1 | - | - | - | - | - | 1 | - | - | 23 | 30 |
| Michigan | 1 | | - | - | 1 | 1 | - | - | - | 58 | 50 |
| Wisconsin | - | 1 | - | - | - | 1 | - | - | - | 15 | 5 |
| WEST NORTH CENTRAL | 1 | - | _ | _ | 2 | _ | _ | _ | 2 | 65 | 50 |
| Minnesota | - | - | - | - | - | - | - | - | 2 | 6 | 13 |
| Iowa | - | - | - | - | 1 | - | - | - | - | 12 | 21 |
| Missouri North Dakota | 1 | _ | | _ | - | _ | _ | - | - | 35 - | 5 2 |
| South Dakota | - | _ | - | - | 1 | _ | _ | _ | _ | _ | - |
| Nebraska | - | - | - : | - | - | - | - | - | - | 1 | - |
| Kansas | - | - | - | - | - | - | - | - | - | 11 | 9 |
| COURT ARTANETO | | 3 | 1 | | 2 | , | 2 | , | 2 | 100 | 7.1 |
| SOUTH ATLANTIC Delaware | - | 3 | 1 | - | 3 | 4 | 3 - | 1 | 2 | 128 2 | 71 2 |
| Maryland | - | - | 1 | - | 2 | - | _ | 1 | _ | 32 | . 7 |
| Dist. of Columbia | - | - | - | - | - | - | - | - | - | 1 | - |
| Virginia | - | - | - | - | 1 | 3 | - | - | - | 7 | 29 |
| West Virginia North Carolina | - | 1 | - | - | - | - 1 | ~ | | - | 10 | 4 |
| South Carolina | - | _ | _ | _ | _ | - | _ | | 1 - | 6 1 | 9 2 |
| Georgia | - | _ | - | - | - | - | - | - | - | 67 | - |
| Florida | - | 2 | - | - | - | - | 3 | - | 1 | 2 | 18 |
| EACH COURT CENTRAL | | , | | | | 1 | , | | | _, | 0.0 |
| EAST SOUTH CENTRAL Kentucky | 6 4 | 1 1 | _ | _ | - | 1 | 1 - | - | | 74 41 | 80 44 |
| Tennessee | 1 | _ | - | _ | - | 1 | 1 | - | _ | 21 | 19 |
| Alabama | - | - | - | - | - | - | = | - | - | 7 | 7 |
| Mississippi | 1 | - | - | - | - | - | - | - | - | 5 | 10 |
| WEST SOUTH CENTRAL | 4 | 2 | _ | 2 | 1 | 1 | | _ | , | 60 | E0 |
| Arkansas | - | - | _ | _ | - | 1 | _ | | 2 | 69 1 | 58 9 |
| Louisiana | - | - | - | 1 | - | - : | - | - | 2 | 10 | ģ |
| Oklahoma | | 1 | - | - | - | - | - | - | - | 5 | 1 |
| Texas | 4 | 1 | - | 1 | 1 | - | - | - | - | 53 | 39 |
| MOUNTAIN | _ | _ | _ | _ | _ | - | | _ | _ | 30 | 51 |
| Montana | - | - | - | _ | - | _ | _ | _ | | 2 | 1 |
| Idaho | - | - | - | - | - | - | - | - | - | 9 | 5 |
| Wyoming | - | - | - | - | - | - | - | - | - | 2 | - |
| Colorado New Mexico | - | - | | - | - | - | - | - | - | - | 7 |
| Arizona | _ | _ | | - | - | - | - | - | | 9 7 | 23 12 |
| Utah | - | - | - | - | - | - | - | _ | _ | 1 | 1 |
| Nevada | - | - | - | - | - | - | - | - | - | - | 2 |
| DACTETO | 13 | 9 | | , | 2 | , | , | 17 | _ | 10- | 3.64 |
| PACIFIC | 13 | - | | 4 2 | 2 | 6 | 4 1 | 17 - | 3 | 187 26 | 164 13 |
| Oregon | - | | - | - | - | _ | - | - | - | 23 | 20 |
| California | 11 | 8 | - | 2 | 2 | 6 | 3 | 17 | 3 | 134 | 130 |
| Alaska | - 1 | - | - | - | - | - | - | - | - | | 1 |
| Hawaii | 1 | 1 | - | - | - | | | - | | 4 . | |
| Puerto Ríco | - | - | - | - | - | | - | | | 13 | 20 |

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

FEBRUARY 4, 1967 AND FEBRUARY 5, 1966 (5th WEEK) - CONTINUED

| | MALARIA | MEAS | LES (Rubeo | la) | MENINGO | COCCAL IN | FECTIONS, | | POLIOMYELI | ris | RUBELLA |
|--------------------------------------|----------|------------|--------------|----------------|---------|-----------|-----------|-------|------------|--------------|-----------|
| AREA | | - | Cumul | | | TOTAL | +1110 | Total | Paral | | |
| | 1967 | 1967 | 1967 | 1966 | 1967 | 1967 | 1966 | 1967 | 1967 | Cum. 1967 | 1967 |
| UNITED STATES | 53 | 2,205 | 7,798 | 26,003 | 51 | 286 | 354 | - | - | - | 849 |
| NEW ENGLAND | 2 | 36 | 83 | 372 | 2 | 9 | 20 | - | - | - | 129 |
| Maine New Hampshire | - | - | 5 - | 39 5 | - | 1 | 7 | - | - | - | 40 |
| Vermont | - | 9 | 13 | 117 | - | - | 1 | - | - | - | 2 |
| Massachusetts Rhode Island | 2 | 15 | 46 6 | 111 | 1 - | 4 - | 6 2 | - | - | _ | 33 11 |
| Connecticut | - | 8 | 13 | 71 | 1 | 4 | 4 | - | - | - | 43 |
| MIDDLE ATLANTIC | 10 | 85 | 325 | 3,994 | 6 | 43 | 62 | - | - | - | 32 |
| New York City New York, Up-State. | - 1 | 10 16 | 44 84 | 1,964 504 | 2 1 | 9 | 14 12 | - | _ | _ | 18 14 |
| New Jersey | 5 | 21 | 98 | 329 | 3 | 17 | 19 | - | - | - | - |
| Pennsylvania | 4 | 38 | 99 | 1,197 | - | 5 | 17 | - | - | - | - |
| EAST NORTH CENTRAL | 2 | 148 | 761 | 10,393 | 9 | 31 | 58 | - | - | - | 126 |
| Ohio Indiana | 2 | 13 18 | 70 114 | 604 403 | 3 - | 12 | 20 5 | - | | - | 9 5 |
| Illinois | - | 15 | 77 | 2,151 | 2 | 6 | 6 | - | - | - | 16 |
| Michigan | - | 22 | 183 | 1,655 | 4 | 8 | 19 | - | - | - | 25 |
| Wisconsin | - | 80 | 317 | 5,580 | - | 2 | 8 | | | _ | 71 |
| WEST NORTH CENTRAL Minnesota | - | 66 2 | 277 13 | 983 408 | 4 | 14 | 18 3 | - | - | - | 65 |
| Iowa | - | 10 | 48 | 274 | _ | 2 | 4 | - | - | _ | 65 |
| Missouri | - | 2 | 10 | 65 | 1 | 4 | 6 | - | - | - | - |
| North Dakota | _ | 44 1 | 118 15 | 225 | 2 | 3 | 1 | _ | | _ | _ |
| Nebraska | - | 7 | 73 | 9 | | 2 | 1 | - | - | - | - |
| Kansas | - | NN | NN | NN | - | 1 | 3 | - | - | - | - |
| SOUTH ATLANTIC | 9 | 310 | 1,003 | 2,431 | 8 | 52 | 65 | - | - | - | 58 |
| Delaware | - | 6 | 13 13 | 35 390 | 2 | 2 | - 8 | - | - | - | 6 |
| Dist. of Columbia | - | - | 4 | 99 | 1 - | 7 - | - | _ | _ | - | 1 - |
| Virginia | - | 43 | 242 | 186 | - | 6 | 5 | - | - | - | 3 |
| West Virginia North Carolina | _ | 114 103 | 235 225 | 1,191 35 | _ | 8 9 | 3 13 | - | | - | 5 |
| South Carolina | 1 | 1 | 4 | 115 | - | 2 | 13 | - | _ | - | - |
| Georgia Florida | 8 - | 1 | 9 | 34 | 4 1 | 8 10 | 5 | - | - | - | 43 |
| | - | 36 | 258 | 346 | | 10 | 18 | _ | - | - | 45 |
| EAST SOUTH CENTRAL | 16 12 | 469 | 1,068 | 3,330 | 7 | 26 9 | 15 | - | - | - | 110 |
| Kentucky Tennessee | - | 272 148 | 358 383 | 1,336 1,892 | 3 4 | 11 | 5 8 | | _ | _ | 51 30 |
| Alabama | 4 | 41 | 159 | 41 | - | 2 | 2 | - | - | - | 29 |
| Mississippi | - | 8 | 168 | 61 | - | 4 | - | - | - | - | - |
| WEST SOUTH CENTRAL Arkansas | 2 - | 463 | 1,989 | 1,648 | 8 | 47 | 35 | - | - | - | 4 |
| Louisiana | _ | 21 | 199 19 | 23 18 | 5 | 22 | 4 8 | - | | - | _ |
| Oklahoma | 2 | 47 | 195 | 10 | - | 2 | 2 | - | - | - | - |
| Texas | - | 395 | 1,576 | 1,597 | 3 | 23 | 21 | | - | - | 4 |
| MOUNTAIN | - | 134 | 601 | 1,117 | 2 | 8 | 14 | - | - | - | 65 |
| MontanaIdaho | - | 12 17 | 124 52 | 233 224 | - | - 1 | 2 | - | - | - | 3 - |
| Wyoming | - | 12 | 12 | 19 | - | - | - | - | - | - | - |
| Colorado New Mexico | - | 12 23 | 106 96 | 109 4 | 2 | 3 | 10 1 | - | - | - | 33 |
| Arizona | - | 26 | 96 | 488 | - | - | - | - | - | - | 22 |
| Utah Nevada | - | 7 25 | 19 100 | 36 4 | - | - 1 | - 1 | - | - | - | 7 |
| | | | | - | | | | | | | |
| PACIFIC | 12 2 | 494 271 | 1,691 948 | 1,735 534 | 5 - | 56 1 | 67 5 | - | - | - | 260 70 |
| Oregon | 2 | 36 | 241 | 180 | 1 | 5 | 3 | - | - | - | 17 |
| California | 7 1 | 181 2 | 436 | 999 | 4 | 48 2 | 49 | - | - | - | 168 |
| Alaska Hawaii | - | 4 | 48 18 | 2 20 | _ | - | 8 2 | - | | _ | 5 |
| Puerto Rico | - | 74 | 240 | 278 | - | 1 | - | - | - | - | 1 |
| | | | | | | | | | | | |

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

FEBRUARY 4, 1967 AND FEBRUARY 5, 1966 (5th WEEK) - CONTINUED

| AREA | STREPTOCOCCAL SORE THROAT & SCARLET FEVER | TETA | NUS | TULAR | REMIA | ТҮРН | OID | TICK- | FEVER BORNE Spotted) | RABIE ANIM | |
|-------------------------------|---|------|--------------|-------|--------------|------|--------------|----------|----------------------------|---------------|--------------|
| , , | 1967 | 1967 | Cum. 1967 | 1967 | Cum. 1967 | 1967 | Cum. 1967 | 1967 | Cum. 1967 | 1967 | Cum. 1967 |
| UNITED STATES | 11,827 | 3 | 13 | - | 13 | 9 | 27 | - | 4 | 69 | 352 |
| NEW ENGLAND | 2,626 | - | - | - | - | - | - | - | - | - | 1 |
| Maine | 96 34 | - | - | - | - | - | - | - | - | - | 1 |
| New Hampshire | 76 | _ | - | _ | _ | - | _ | - | | - | - |
| Massachusetts | 426 | - | - | - | - | - | - | - | - | - | - |
| Rhode Island Connecticut | 177 1,817 | - | - | - | - | - | - | - | - | - | - |
| | | | 1 | - | | , | e | | | | 0 |
| MIDDLE ATLANTIC New York City | 404 19 | 1 - | - | - | - | 1 | 5 3 | - | - | | 9 |
| New York, Up-State. | 275 | - | - | - | - | - | 1 | - | - | - | 6 |
| New Jersey | NN | - | - | - | - | - | - | - | - | - | - |
| Pennsylvania | 110 | 1 | 1 | - | - | - | 1 | - | - | - 1 | 3 |
| EAST NORTH CENTRAL | 1,183 | - | - | - | 2 | - | 1 | - | - | 4 | 17 |
| Ohio | 171 | | - | - | - | - | 1 | - | - | 2 | 10 |
| IndianaIllinois | 245 130 | - | - | - | 2 | - | - | | _ | 1 - | 3 |
| Michigan | 296 | - | - | - | Ξ | - | - | - | - | 1 | 1 |
| Wisconsin | 341 | - | - | - | - | - ' | - | - | - | - ' | - |
| WEST NORTH CENTRAL | 637 | - | 1 | - | 3 | - | - | - | - | 24 | 110 |
| Minnesota | 26 | - | 1 | - | _ | - | - | - | - | 6 | 26 |
| Iowa Missouri | 246 31 | | | - | 1 | - | - | _ | _ | 6 2 | 13 25 |
| North Dakota | 158 | - | - | - | _ | - | - | - | - | 8 | 21 |
| South Dakota | 16 | - | - | - | - | - | - | - | - | 1 | 11 |
| Nebraska Kansas | 2 1 5 8 | - | _ | - | 2 | - | - | _ | - | 1 | 4 10 |
| | | , | | | | | , | | 2 | _ | |
| SOUTH ATLANTIC Delaware | 1,034 47 | 1 | 3 | - | 2 | - | 1 | | 3 | 5 - | 41 |
| Maryland | 298 | - | - | - | _ | - | - | - | - | - | _ |
| Dist. of Columbia | 6 | - | - | - | - | - | - | - | - | - | |
| Virginia | 227 | 1 - | 2 | - | - | - | - | - | - | 4 | 21 6 |
| West Virginia North Carolina | 233 18 | | _ | - | - | _ | 1 | _ | 2 | _ | - |
| South Carolina | 31 | - | - | - | 2 | - | - | - | - | - | - |
| Georgia | 8 | - | - | - | - | - | - | - | 1 | 1 | 9 |
| Florida | 166 | - | 1 | - | - | - | - | - | - | - | 5 |
| EAST SOUTH CENTRAL | 1,825 | - | 3 | - | 2 | 1 | 4 | - | 1 | 16 | 82 |
| Kentucky | 392 | _ | 3 | _ | 2 | - | 1 | _ | 1 | 5 10 | 22 58 |
| Alabama | 1,105 125 | | - | | - | 1 | 3 | | - | 1 | 1 |
| Mississippi | 203 | - | - | - | - | - | - | - | - | - | 1 |
| WEST SOUTH CENTRAL | 866 | 1 | 1 | - | 1 | 4 | 8 | - | - | 18 | 66 |
| Arkansas | 32 | - | - | - | - | | - | - | - | 3 | 11 |
| Louisiana | - 76 | | - | - | - 1 | 4 | 8 | _ | | 1 4 | 6 15 |
| Texas | | 1 | 1 | - | - | - | - | - | - | 10 | 34 |
| MOUNTAIN | 1,290 | _ | - | - | 3 | - | 2 | _ | - | - | 7 |
| Montana | 53 | - | - | - | i | - | ī | - | - | - | - |
| Idaho | 194 | - | - | - | - | - | - | - | - | - | - |
| Wyoming | | - | | - | _ | - | _ | - | _ | _ | _ |
| New Mexico | 283 | - | - | _ | _ | - | - | - | _ | _ | 4 |
| Arizona | 142 | - | - | - | - | - | 1 | - | - | - | 3 |
| Utah Nevada | 139 | - | - | _ | 2 | - | - | - | - | - | - |
| PACIFIC | | _ | 4 | _ | _ | 3 | 6 | _ | _ | 2 | 19 |
| Washington | 736 | - | - | - | - | - | - | - | _ | - | - |
| Oregon | 69 | - | - | - | - | - | - | - | - | 2 | 10 |
| California | 1,015 58 | | 3 | - | - | 3 | 6 | - | - | - | 19 - |
| Hawaii | | - | 1 | - | - | - | - | _ | - | - | - |
| Puerto Rico | 4 | - | - | - | - | - | 2 | <u> </u> | | 1 | 1 |

Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED FEBRUARY 4, 1967

5

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

| | , pract | | | | | | | | |
|---------------------------------------|-----------|-----------|-----------|--------|-------------------------|------------|------------|------------|--------|
| | All Ca | uses | Pneumonia | Under | | All Ca | uses | Pneumonia | Under |
| Area | A11 | 65 years | and | l year | Area | A11 | 65 310030 | and | 1 year |
| 112 EG | Ages | and over | Influenza | All | 112.55 | Ages | 65 years | Influenza | A11 |
| | 8 | | All Ages | Causes | | | Land Over | All Ages | Causes |
| | 212 | ,,, | 26 | 2.0 | | | 4 | | |
| NEW ENGLAND: | 713 | 454 | 36 | 30 | SOUTH ATLANTIC: | 1,155 | 622 | 67 | 53 |
| Boston, Mass | 246 41 | 142 26 | 10 4 | 11 2 | Atlanta, Ga | 118 | 60 | 5 | 6 |
| Bridgeport, Conn.* | | | | | Baltimore, Md | 260 | 129 | 14 | 12 |
| Cambridge, Mass | 31 | 24 | - | - | Charlotte, N. C | 41 | 28 | 1 | 1 |
| Fall River, Mass | 29 | 20 | 1 | - | Jacksonville, Fla | 78 | 39 | 3 | 4 |
| Hartford, Conn Lowell, Mass | 56 | 33 | 1 | 5 | Miami, Fla | 94 | 57 | 1 | 3 |
| | 26 | 18 | 3 | 2 | Norfolk, Va | 57 | 24 | 3 | 3 |
| Lynn, Mass | 18 | 12 | 1 | 1 | Richmond, Va | 81 | 42 | 6 | 3 |
| New Bedford, Mass | 21 | 15 | - | - | Savannah, Ga | 45 | 24 | 6 | 1 |
| New Haven, Conn | 53 | 32 | - | 2 | St. Petersburg, Fla | 82 | 70 | 8 | 1 |
| Providence, R. I | 57 14 | 32 | 6 | 1 - | Tampa, Fla | 70 | 44 | 8 | 2 |
| Somerville, Mass Springfield, Mass | 38 | 11 34 | 1 4 | | Wilmington, Del | 188 | 85 | 10 | 14 |
| Waterbury, Conn | 28 | 17 | 4 | 1 2 | Williamgton, Del. | 41 | 20 | 2 | 3 |
| Worcester, Mass | 55 | 38 | 5 | 3 | EAST SOUTH CENTRAL: | | 222 | | |
| wordester, Mass. |)) | 30 | , | ا د | Birmingham, Ala | 646 103 | 333 39 | 39 | 45 |
| MIDDLE ATLANTIC: | 3,327 | 1,966 | 140 | 157 | Chattanooga, Tenn | 57 | 31 | 4 | 14 |
| Albany, N. Y | 54 | 21 | 1 | 9 | Knoxville, Tenn | 41 | 23 | 1 | 2 |
| Allentown, Pa | 36 | 21 | 1 | 2 | Louisville, Ky | 109 | 71 | 14 | 6 |
| Buffalo, N. Y | 146 | 90 | 6 | 6 | Memphis, Tenn | 152 | 79 | 7 | 10 |
| Camden, N. J | 45 | 30 | 3 | 5 | Mobile, Ala | 37 | 18 | 2 | 2 |
| Elizabeth, N. J | 38 | 21 | 2 | 1 | Montgomery, Ala | 44 | 28 | 4 | 2 |
| Erie, Pa | 45 | 31 | 3 | _ | Nashville, Tenn | 103 | 44 | 7 | 8 |
| Jersey City, N. J | 69 | 43 | 5 | 3 | monverse, remi | 103 | 44 | _ ′ | 0 |
| Newark, N. J | | 35 | 5 | 7 | WEST SOUTH CENTRAL: | 1,121 | 585 | 49 | 74 |
| New York City, N. Y | | 961 | 71 | 69 | Austin, Tex | 51 | 24 | 1 | 4 |
| Paterson, N. J | 35 | 24 | 6 | 3 | Baton Rouge, La | 39 | 21 | 1 | 2 |
| Philadelphia, Pa | 584 | 343 | 15 | 22 | Corpus Christi, Tex | 30 | 11 | | 5 |
| Pittsburgh, Pa | | 97 | 2 | 10 | Dallas, Tex | 160 | 80 | 7 | 12 |
| Reading, Pa | 51 | 36 | 1 | 2 | El Paso, Tex | 35 | 17 | 3 | 4 |
| Rochester, N. Y | 95 | 57 | 6 | 7 | Fort Worth, Tex | 83 | 43 | 3 | 5 |
| Schenectady, N. Y | 13 | 8 | 1 | 1 | Houston, Tex | 198 | 103 | 8 | 14 |
| Scranton, Pa | 48 | 31 | 3 | 2 | Little Rock, Ark | 52 | 23 | 5 | 3 |
| Syracuse, N. Y. | 51 | 33 | 3 | 4 | New Orleans, La | 161 | 75 | 8 | 13 |
| Trenton, N. J | 46 | 31 | 2 | 1 | Oklahoma City, Okla | 93 | 60 | 2 | 1 |
| Utica, N. Y | 29 | 18 | 2 | 1 | San Antonio, Tex | 103 | 59 | 4 | 2 |
| Yonkers, N. Y | 42 | 35 | 2 | 2 | Shreveport, La | 45 | 27 | 4 | 3 |
| 2-1111-10, 111 21 | | | _ | _ | Tulsa, Okla | 71 | 42 | 3 | 6 |
| EAST NORTH CENTRAL: | 2,627 | 1,463 | 87 | 122 | , | / - | 42 | 1 | |
| Akron, Ohio | 55 | 32 | _ | 8 | MOUNTAIN: | 390 | 240 | 24 | 20 |
| Canton, Ohio | 29 | 20 | 1 | 1 | Albuquerque, N. Mex | 45 | 26 | 8 | 1 |
| Chicago, Ill | 838 | 445 | 45 | 32 | Colorado Springs, Colo. | 13 | 11 | - | _ |
| Cincinnati, Ohio | 172 | 112 | 5 | 3 | Denver, Colo | 95 | 55 | 4 | 5 |
| Cleveland, Ohio | 226 | 114 | 2 | 24 | Ogden, Utah | 20 | 12 | 3 | 3 |
| Columbus, Ohio | 122 | 58 | 3 | 6 | Phoenix, Ariz | 100 | 60 | 4 | 3 |
| Dayten, Ohio | 65 | 33 | 3 | 3 | Pueblo, Colo | 19 | 12 | 2 | - |
| Detroit, Mich | 343 | 175 | 3 | 24 | Salt Lake City, Utah | 49 | 33 | 1 | 3 |
| Evansville, Ind | 31 | 22 | 1 | - | Tucson, Ariz | 49 | 31 | 2 | 5 |
| Flint, Mich | 45 | 19 | - | 1 | | | | - | |
| Fort Wayne, Ind | 48 | 26 | 3 | - | PACIFIC: | 1,866 | 1,121 | 70 | 96 |
| Gary, Ind | 21 | 14 | - | - | Berkeley, Calif | 24 | 17 | _ | - |
| Grand Rapids, Mich | 51 | 33 | 6 | 3 | Fresno, Calif | 37 | 20 | - | 3 |
| Indianapolis, Ind | | 81 | 4 | 9 | Glendale, Calif | 44 | 33 | 1 | _ |
| Madison, Wis | 39 | 25 | - | 1 | Honolulu, Hawaii* | | 26 | 1 | 6 |
| Milwaukee, Wis | 145 | 93 | - | 1 | Long Beach, Calif | 100 | 60 | 10 | 5 |
| Peoria, Ill | 44 | 26 | - | 1 | Los Angeles, Calif | 606 | 363 | 24 | 27 |
| Rockford, Ill | 27 | 16 | 6 | 2 | Oakland, Calif | 113 | 65 | 6 | 5 |
| South Bend, Ind | 38 | 21 | 1 | - | Pasadena, Calif | 44 | 30 | - | 2 |
| Toledo, Ohio | 86 | 54 | 3 | 3 | Portland, Oreg | 126 | 80 | 1 | 8 |
| Youngstown, Ohio | 64 | 44 | 1 | - | Sacramento, Calif | 84 | 55 | 3 | 6 |
| | | | | | San Diego, Calif | 111 | 67 | ĭ | 10 |
| WEST NORTH CENTRAL: | 821 | 477 | 40 | 41 | San Francisco, Calif | 223 | 122 | 10 | 15 |
| Des Moines, Iowa | | 33 | 3 | 3 | San Jose, Calif | 52 | 31 | 6 | 1 |
| Duluth, Minn | 7 | 7 | - | - | Seattle, Wash | 158 | 90 | 6 | 7 |
| Kansas City, Kans | 13 | 5 | | 1 | Spokane, Wash | 43 | 33 | - | - |
| Kansas City, Mo | 156 | 91 | 4 | 8 | Tacoma, Wash | 47 | 29 | 1 | 1 |
| Lincoln, Nebr | 36 | 24 | 3 | - | | | | | |
| Minneapolis, Minn | 111 | 78 | 4 | 4 | Total | 12,666 | 7,261 | 552 | 638 |
| Omaha, Nebr | 84 | 49 | 1 | 6 | | | | | |
| St. Louis, Mo | | 119 | 17 | 12 | Cu | mulative T | otals | | |
| St. Paul, Minn | | 46 | 4 | 3 | including report | ed correct | ions for p | revious we | eks |
| Wichita, Kans | 43 | 25 | 4 | 4 | | | | | |

*Estimate - based on average percent of divisional total.



THE MORBIOITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE OISEASE CENTER, ATLANTA, GEORGIA.

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OAVIO J. SENCER, M.O.
A.O. LANGMUIR, M.O.
IOA L. SHERMAN, M.S.

IN A OOITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIOITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ACORESSED TO:

THE EOITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
NATIONAL COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE OATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCOC BY THE INDIVIDUAL STATE HEALTH OFFARTMENTS. THE REPORTING WEEK CONCLUCES ON SATURODAY; COMPILEO OATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIOAY.

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